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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Claims 1-8 (Cancelled).

9. (Currently amended) A receiver for receiving and efficiently separating a composite 3-G wireless communications signal into constituent baseband components, wherein said receiver combines multiple processing tasks of a 3-G receiver into a single device, said device performs the processing required for multiple channels, the single device comprising,

a resampling polyphase filter for performing tasks of simultaneous spectral translation of multiple contiguous spectral regions to baseband, the steps including:

a.) separating the signals residing in the multiple contiguous spectral regions for bandwidth reduction of each of a varied bandwidth signal component,

b.) performing interpolation to change sample rates of each of a multiple output series by a rational ratio matched to the bandwidth of each [of each] signal component, and

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a single polyphase filter coupled to operate in a resampling mode such that sample rate inputs and sample rate outputs are different.

10. (Previously presented) A receiver for receiving and Efficiently separating a composite 3-G wireless communications signal into constituent baseband components, wherein said receiver combines multiple processing tasks of a 3-G receiver into a single device, said device performs the processing required for multiple channels, the single device comprising,

a filter for;

a.) changing a sample rate to induce spectral aliasing of multiple spectral regions, and

b.) operating in a resampling mode for intentional aliasing of each of several spectral regions and outputting simultaneous separate data streams from varied bandwidth spectral regions at varied output sample rates.